SAFETY DATA SHEET



PWR-4 Solvent 3410

Section 1. Identifi	cation
GHS product identifier	: PWR-4 Solvent 3410
Product code	: 3410-G, 3410-5G, 3410-54G
Other means of	: Vapor Degreasers
identification	Industrial/Professional use 3410-G, 3410-5G, 3410-54G
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	
See Technical Data Sheets for	or application uses
Uses advised against Not applicable.	
Supplier's details	: Techspray
	8125 Cobb Center Drive
	Kennesaw, GA 30152 Tel: 678-819-1408
	Toll free: 1-800-858-4043
	Fax: 1 806-372-8750
Emergency telephone	: Chemtrec - 1-800-424-9300
number (with hours of	CANUTEC (Canadian Transportation): (613) 996-6666
operation)	Emergency phone: (800) 858-4043 24/7
Section 2. Hazard	s identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the	: ACUTE TOXICITY (oral) - Category 4
substance or mixture	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity:
	7.5%
GHS label elements	
Hazard pictograms	:
Signal word	: Warning
Hazard statements	: Harmful if swallowed.
	Causes skin irritation.
Precautionary statements	Causes serious eye irritation.
Prevention	: Wear protective gloves. Wear eye or face protection. Do not eat, drink or smoke when
	using this product. Wash thoroughly after handling.

Section 2. Hazards identification

Response	: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Vapor Degreasers Industrial/Professional use 3410-G, 3410-5G, 3410-54G

Ingredient name	%	CAS number
trans-dichloroethylene	≥90	156-60-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first	aid measures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/eff	
Potential acute health effects	•
Eve contact	: Causes serious eve irritation.

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Section 4. First aid measures

Inhalation	: At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
Skin contact	: Causes skin irritation.
Ingestion	: Harmful if swallowed.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing headache
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: Adverse symptoms may include the following: Ingestion Seek medical attention.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media			
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.		
Unsuitable extinguishing media	: None known.		
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.		
	Product displays no closed-cup flash point. However, the product contains halogenated compounds, which may present a masking effect on flashpoint testing results. Product contains flammable and nonflammable components, there are cases where flammable vapors may evolve under certain conditions and yet will not exhibit a closed-cup flash point. This phenomenon is noted when a nonflammable component is sufficiently volatile and present in sufficient quantity to inert the vapor space of the closed cup, thus preventing a flash. However, flammable/explosive vapor air mixture may form. Avoid vapor contact with ignition source or extreme heat.		
	Exposure to extreme heat can give rise to thermal decomposition.		
Hazardous thermal decomposition products	 Decomposition products may include the following materials: carbon dioxide, carbon monoxide, halogenated compounds, carbonyl halides, hydrogen chloride During combustion and hydrogen fluoride during combustion. 		
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 		
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.		
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Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Vapors are heavier than air and may spread along floors. Keep away from heat and sources of ignition.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
trans-dichloroethylene	ACGIH TLV (United States, 3/2020). TWA: 200 ppm 8 hours. TWA: 793 mg/m ³ 8 hours.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	res
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Ap	pea	ran	се
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Physical state	: Liquid.
Color	: Clear. Colorless.
Odor	: Solvent
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.

Section 9. Physical and chemical properties and safety characteristics

Boiling point, initial boiling point, and boiling range: 48°C (118.4°F)Flash point Flammability: Not applicable. : Not available.Elammability Lower and upper explosion limit/flammability limit: Lower: 7.5% [ASTM E 681] Upper: 15.3% [ASTM E 681]Vapor pressure Relative vapor density Relative density: Not available. : 1.2173Density Solubility in water Partition coefficient: n- octanol/water: Not available. : Not available.Partition coefficient: n- octanol/water: 460°C (860°F) : Not available.Particle characteristics Median particle size: Not applicable.		
Flammability: Not available.Lower and upper explosion limit/flammability limit: Lower: 7.5% [ASTM E 681] Upper: 15.3% [ASTM E 681]Vapor pressure: Not available.Relative vapor density: Not available.Relative density: 1.2173Density: 1.2713 g/cm³Solubility in water: Not available.Partition coefficient: n- octanol/water: Not applicable.Auto-ignition temperature: 460°C (860°F)Decomposition temperature: Not available.Viscosity: Not available.Particle characteristics		: 48°C (118.4°F)
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Decomposition temperature: Not available.Viscosity: Not available.Particle characteristics		: Not applicable.
Viscosity : Not available. Particle characteristics	Auto-ignition temperature	: 460°C (860°F)
Particle characteristics	Decomposition temperature	: Not available.
	Viscosity	: Not available.
Median particle size : Not applicable.	Particle characteristics	
	Median particle size	: Not applicable.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Vapors are heavier than air and may spread along floors. Keep away from heat and sources of ignition.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute	tox	icity

Product/ingredient name	Result	Species	Dose	Exposure
trans-dichloroethylene	LC50 Inhalation Gas. LD50 Dermal LD50 Oral	Rabbit	24100 ppm >5 g/kg 1235 mg/kg	4 hours - -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
trans-dichloroethylene	Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit	-	10 mg 24 hours 500 mg	-

Sensitization

Not available.

Section 11. Toxicological information

Mutagenicity Not available. Carcinogenicity Not available. **Reproductive toxicity** Not available. **Teratogenicity** Not available. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. **Aspiration hazard** Not available. Information on the likely : Not available. routes of exposure Potential acute health effects **Eve contact** : Causes serious eye irritation. Inhalation At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen. **Skin contact** : Causes skin irritation. : Harmful if swallowed. Ingestion Symptoms related to the physical, chemical and toxicological characteristics Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing headache **Skin contact** : Adverse symptoms may include the following: irritation redness Ingestion : Adverse symptoms may include the following: Ingestion Seek medical attention. Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure **Potential immediate** : Not available. effects **Potential delayed effects** : Not available.

Potential delayed effects

Potential chronic health effects

Long term exposure Potential immediate

effects

Not available.

: Not available.

: Not available.

Section 11. Toxicological information

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

•		Dermal (mg/kg)		(vapors)	Inhalation (dusts and mists) (mg/ I)
trans-dichloroethylene	1235	N/A	24100	N/A	N/A

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
trans-dichloroethylene	Acute LC50 220000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
trans-dichloroethylene	2.09	-	Low

Mobility in soil

Soil/water partition: Not available.coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #		Reference number
1,2-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-	156-60-5	Listed	U079

Section 14. Transport information

	1				
	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-				
Transport hazard class(es)					
Packing group		-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Additional information

DOT Classification

: <u>Reportable quantity</u> 1111.1 lbs / 504.44 kg [104.82 gal / 396.79 L]. The classification of the product is due solely to the presence of one or more US DOT-listed 'Hazardous substances' that are subject to reportable quantity requirements and only applies to shipments of packages greater than, or equal to, the product reportable quantity. Package sizes less than the product reportable quantity are not regulated as hazardous materials.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations	• •	2 final significant new ι oroethoxy)-	ise rules : Ethane, 1,	1,2,2-tetrafluoro-1-	
	TSCA 8(a)	CDR Exempt/Partial ex	emption: Not determ	ined	
	TSCA 12(b) one-time export: Etha	ne, 1,1,2,2-tetrafluoro	o-1-(2,2,2-trifluoroetho	xy)-
	Clean Wat	er Act (CWA) 307: trans-	-dichloroethylene		
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed				
Clean Air Act Section 602 Class I Substances	: Not listed				
Clean Air Act Section 602 Class II Substances	: Not listed				
DEA List I Chemicals (Precursor Chemicals)	: Not listed				
DEA List II Chemicals (Essential Chemicals)	: Not listed				
SARA 302/304					
Composition/information	on ingredients				
No products were found.					
SARA 304 RQ	: Not applica	ble.			
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Section 15. Regulatory information

SARA 311/312

Classification

: ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

Composition/information on ingredients

Name	%	Classification
trans-dichloroethylene		FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

State regulations

Massachusetts	: The following components are listed: DICHLOROETHYLENE-TRANS
New York	: The following components are listed: Ethene, trans-1,2-dichloro-; Dichloroethylene
New Jersey	: None of the components are listed.
Pennsylvania	: The following components are listed: ETHENE, 1,2-DICHLORO-, (E)-
<u>California Prop. 65</u>	

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention Li	<u>st Schedules I, II & II</u>	<u>l Chemicals</u>
Not listed.		

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

<u>inventory nat</u>	
Australia	: Not determined.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Classification	Justification
	Calculation method Calculation method
	Calculation method

<u>History</u>	
Date of printing	: 6/28/2024
Date of issue/Date of revision	: 6/28/2024
Date of previous issue	: 6/28/2024
Version	: 6
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations
References	: Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.